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L2: Entry 22 of 51

File: USPT

Dec 19, 1995

US-PAT-NO: 5476775

DOCUMENT-IDENTIFIER: US 5476775 A

TITLE: Hemicellulase active at PH and temperature extremes

DATE-ISSUED: December 19, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fodge; Douglas W.	Rockville	MD		
Anderson; David M.	Rockville	MD		
Petty; Thomas M.	Gaithersburg	MD		

US-CL-CURRENT: 435/209; 435/183

CLAIMS:

What is claimed is:

1. In essentially pure form, the endo-.beta.-mannanase enzyme purified from Bacillus strain CMG1240 having ATCC accession no. 55045 that catalyzes the degradation of mannan, wherein said enzyme

(a) has a pH profile for endo-.beta.-mannanase activity with the substrate guar that ranges from pH 4.5 to pH 11, and

(b) retains 50% of its maximum activity after 45 minutes at pH 9.0 and 75.degree. C. with the substrate guar.

2. An enzyme preparation comprising the essentially pure endo-.beta.-mannanase enzyme according to claim 1.

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L2: Entry 21 of 51

File: USPT

Sep 3, 1996

US-PAT-NO: 5551515

DOCUMENT-IDENTIFIER: US 5551515 A

TITLE: Hemicellulase active at extremes of Ph and temperature and utilizing the enzyme in oil wells

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fodge; Douglas W.	Rockville	MD		
Anderson; David M.	Rockville	MD		
Petty; Thomas M.	Gaithersburg	MD		

US-CL-CURRENT: 166/300, 166/308, 435/183, 435/209, 435/252.5, 435/264, 435/266, 435/281, 435/832, 435/835, 507/201, 507/211, 507/921, 507/922

CLAIMS:

What is claimed is:

1. A method of conditioning subterranean oil wells comprising the steps of

(a) preparing a suspension comprised of water, a hydraulic gelling agent and a proppant, said proppant having an indicated mesh size;

(b) pumping an adequate amount of said suspension under high pressure into an oil well causing a fracture to occur in subterranean geologic formations adjacent to said well such that said suspension is deposited in said fracture; and

(c) pumping an adequate amount of an enzyme endo-.beta.-mannanase enzyme that catalyzes the degradation of mannan, wherein said enzyme (i) has a pH profile for endo-.beta.-mannanase activity with the substrate guar that ranges from pH 4.5 to pH 11, and (ii) retains 50% of its maximum activity after 45 minutes at pH 9.0 and 75.degree. C. with the substrate guar into said fracture with said suspension to effect degradation of said hydraulic gelling agent.

2. The method according to claim 1, wherein said endo-.beta.-mannanase enzyme is purified from Bacillus strain CMG1240 having ATCC accession no. 55045.

WEST**Freeform Search**

Database: US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Term: L2 and (relative activity or residual activity)

Display: 50 Documents in **Display Format:** - Starting with Number 1

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DATE: Tuesday, October 29, 2002 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>
<u>side by side</u>	

<u>Hit Count</u>	<u>Set Name</u>
	<u>result set</u>

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

<u>L3</u>	L2 and (relative activity or residual activity)	11	<u>L3</u>
<u>L2</u>	L1 with Bacillus	51	<u>L2</u>
<u>L1</u>	mannanase	423	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)

Search Results - Record(s) 1 through 50 of 51 returned.

☐ 1. Document ID: US 20020123445 A1

L2: Entry 1 of 51

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123445 A1

TITLE: Stability enhancing formulation components, compositions and laundry methods employing same

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dykstra, Robert Richard	Cleves	OH	US	
Gustwiller, Marc Eric	Cincinnati	OH	US	
Howard, Tonya Ann	South Lebanon	OH	US	

US-CL-CURRENT: [510/302](#); [510/309](#), [510/375](#), [510/499](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 2. Document ID: US 20020010122 A1

L2: Entry 2 of 51

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020010122

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020010122 A1

TITLE: Liquid laundry detergent compositions having enhanced clay removal benefits

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Price, Kenneth Nathan	Wyoming	OH	US	
Meyer, Axel	Cincinnati	OH	US	

US-CL-CURRENT: [510/374](#); [510/499](#), [510/504](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 3. Document ID: US 20020004474 A1

L2: Entry 3 of 51

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004474

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004474 A1

TITLE: Laundry detergent compositions comprising hydrophobically modified polyamines and nonionic surfactants

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Price, Kenneth Nathan	Cincinnati	OH	US	

US-CL-CURRENT: 510/375; 510/376, 510/499

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 6472359 B1

L2: Entry 4 of 51

File: USPT

Oct 29, 2002

US-PAT-NO: 6472359

DOCUMENT-IDENTIFIER: US 6472359 B1

TITLE: Laundry detergent compositions comprising zwitterionic polyamines and xyloglucanase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 6440911 B1

L2: Entry 5 of 51

File: USPT

Aug 27, 2002

US-PAT-NO: 6440911

DOCUMENT-IDENTIFIER: US 6440911 B1

TITLE: Enzymatic cleaning compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 6. Document ID: US 6425975 B1

L2: Entry 6 of 51

File: USPT

Jul 30, 2002

US-PAT-NO: 6425975

DOCUMENT-IDENTIFIER: US 6425975 B1

TITLE: Process for concentrating soluble and colloidal substances in process waters

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 7. Document ID: US 6420331 B1

L2: Entry 7 of 51

File: USPT

Jul 16, 2002

US-PAT-NO: 6420331

DOCUMENT-IDENTIFIER: US 6420331 B1

TITLE: Detergent compositions comprising a mannanase and a bleach system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 8. Document ID: US 6384008 B1

L2: Entry 8 of 51

File: USPT

May 7, 2002

US-PAT-NO: 6384008

DOCUMENT-IDENTIFIER: US 6384008 B1

TITLE: Non-aqueous liquid detergent compositions containing ethoxylated quaternized amine clay compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 9. Document ID: US 6376445 B1

L2: Entry 9 of 51

File: USPT

Apr 23, 2002

US-PAT-NO: 6376445

DOCUMENT-IDENTIFIER: US 6376445 B1

TITLE: Detergent compositions comprising a mannanase and a protease

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 10. Document ID: US 6284494 B1

L2: Entry 10 of 51

File: USPT

Sep 4, 2001

US-PAT-NO: 6284494

DOCUMENT-IDENTIFIER: US 6284494 B1

TITLE: Methods and compositions for synthesis of oligosaccharides using mutant glycosidase enzymes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 11. Document ID: US 6194193 B1

L2: Entry 11 of 51

File: USPT

Feb 27, 2001

US-PAT-NO: 6194193

DOCUMENT-IDENTIFIER: US 6194193 B1

TITLE: Nutrient plant formulation with microbial strains

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 12. Document ID: US 6162473 A

L2: Entry 12 of 51

File: USPT

Dec 19, 2000

US-PAT-NO: 6162473

DOCUMENT-IDENTIFIER: US 6162473 A

TITLE: Hemicellulase use in feeds with low caloric content

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 13. Document ID: US 6150171 A

L2: Entry 13 of 51

File: USPT

Nov 21, 2000

US-PAT-NO: 6150171

DOCUMENT-IDENTIFIER: US 6150171 A

TITLE: Thermostable alpha-galactosidase and methods of use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 14. Document ID: US 6121226 A

L2: Entry 14 of 51

File: USPT

Sep 19, 2000

US-PAT-NO: 6121226

DOCUMENT-IDENTIFIER: US 6121226 A

TITLE: Compositions comprising cotton soil release polymers and protease enzymes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 15. Document ID: US 6060299 A

L2: Entry 15 of 51

File: USPT

May 9, 2000

US-PAT-NO: 6060299

DOCUMENT-IDENTIFIER: US 6060299 A

TITLE: Enzyme exhibiting mannanase activity, cleaning compositions, and methods of use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 16. Document ID: US 5865949 A

L2: Entry 16 of 51

File: USPT

Feb 2, 1999

US-PAT-NO: 5865949

DOCUMENT-IDENTIFIER: US 5865949 A

TITLE: Process for preparing and treating mechanical pulp with an enzyme preparation having cellobiohydrolase and endo-.beta.-glucanase activity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☒ 17. Document ID: US 5854047 A

L2: Entry 17 of 51

File: USPT

Dec 29, 1998

US-PAT-NO: 5854047

DOCUMENT-IDENTIFIER: US 5854047 A

TITLE: Mannanase enzymes, genes coding for them and a method for isolating the genes, as well as a process for bleaching of lignocellulosic pulp

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☒ 18. Document ID: US 5795764 A

L2: Entry 18 of 51

File: USPT

Aug 18, 1998

US-PAT-NO: 5795764

DOCUMENT-IDENTIFIER: US 5795764 A

TITLE: Enzyme exhibiting mannanase activity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 19. Document ID: US 5716812 A

L2: Entry 19 of 51

File: USPT

Feb 10, 1998

US-PAT-NO: 5716812

DOCUMENT-IDENTIFIER: US 5716812 A

TITLE: Methods and compositions for synthesis of oligosaccharides, and the products formed thereby

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 20. Document ID: US 5661021 A

L2: Entry 20 of 51

File: USPT

Aug 26, 1997

US-PAT-NO: 5661021

DOCUMENT-IDENTIFIER: US 5661021 A

TITLE: Mannanase enzymes, genes coding for them and a method for isolating the genes, as well as a process for bleaching of lignocellulosic pulp

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 21. Document ID: US 5551515 A

L2: Entry 21 of 51

File: USPT

Sep 3, 1996

US-PAT-NO: 5551515

DOCUMENT-IDENTIFIER: US 5551515 A

TITLE: Hemicellulase active at extremes of Ph and temperature and utilizing the enzyme in oil wells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 22. Document ID: US 5476775 A

L2: Entry 22 of 51

File: USPT

Dec 19, 1995

US-PAT-NO: 5476775

DOCUMENT-IDENTIFIER: US 5476775 A

TITLE: Hemicellulase active at PH and temperature extremes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 23. Document ID: US 5429828 A

L2: Entry 23 of 51

File: USPT

Jul 4, 1995

US-PAT-NO: 5429828

DOCUMENT-IDENTIFIER: US 5429828 A

TITLE: Hemicellulase supplement to improve the energy efficiency of hemicellulose-containing animal feed

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 24. Document ID: US 4971814 A

L2: Entry 24 of 51

File: USPT

Nov 20, 1990

US-PAT-NO: 4971814

DOCUMENT-IDENTIFIER: US 4971814 A

TITLE: Water-soluble dietary fibers and method for preparation of same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 25. Document ID: JP 08332032 A

L2: Entry 25 of 51

File: JPAB

Dec 17, 1996

PUB-NO: JP408332032A

DOCUMENT-IDENTIFIER: JP 08332032 A

TITLE: PERORAL ENZYME PREPARATION FOR ANIMAL AND ITS USE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 26. Document ID: JP 08051975 A

L2: Entry 26 of 51

File: JPAB

Feb 27, 1996

PUB-NO: JP408051975A

DOCUMENT-IDENTIFIER: JP 08051975 A

TITLE: NEW BETA-MANNANASE AND METHOD FOR PRODUCING THE SAME

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 27. Document ID: JP 07274960 A

L2: Entry 27 of 51

File: JPAB

Oct 24, 1995

PUB-NO: JP407274960A

DOCUMENT-IDENTIFIER: JP 07274960 A

TITLE: BETA-MANNANASE-PRODUCING MICROORGANISM AND PRODUCTION OF BETA-MANNANASE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 28. Document ID: JP 63056289 A

L2: Entry 28 of 51

File: JPAB

Mar 10, 1988

PUB-NO: JP363056289A

DOCUMENT-IDENTIFIER: JP 63056289 A

TITLE: BETA-MANNANASE AND PRODUCTION THEREOF

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 29. Document ID: JP 63049093 A

L2: Entry 29 of 51

File: JPAB

Mar 1, 1988

PUB-NO: JP363049093A

DOCUMENT-IDENTIFIER: JP 63049093 A

TITLE: PRODUCTION OF MANNOSACCHARIDE-CONTAINING GLUCIDE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 30. Document ID: JP 63036775 A

L2: Entry 30 of 51

File: JPAB

Feb 17, 1988

PUB-NO: JP363036775A

DOCUMENT-IDENTIFIER: JP 63036775 A

TITLE: NOVEL ALKALOPHILIC STRAIN OF BACILLUS GENUS CAPABLE OF PRODUCING BETA-MANNANASE AND BETA-MANNOSIDASE AND USE THEREOF

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 31. Document ID: JP 57065182 A

L2: Entry 31 of 51

File: JPAB

Apr 20, 1982

PUB-NO: JP357065182A

DOCUMENT-IDENTIFIER: JP 57065182 A

TITLE: PRODUCTION OF BETA-1,4-MANNANASE BY MICROORGANISM

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 32. Document ID: WO 9964619 A2

L2: Entry 32 of 51

File: EPAB

Dec 16, 1999

PUB-NO: WO009964619A2

DOCUMENT-IDENTIFIER: WO 9964619 A2

TITLE: NOVEL MANNANASES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 33. Document ID: WO 9964573 A1

L2: Entry 33 of 51

File: EPAB

Dec 16, 1999

PUB-NO: WO009964573A1

DOCUMENT-IDENTIFIER: WO 9964573 A1

TITLE: NOVEL MANNANASES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 34. Document ID: WO 9711164 A1

L2: Entry 34 of 51

File: EPAB

Mar 27, 1997

PUB-NO: WO009711164A1

DOCUMENT-IDENTIFIER: WO 9711164 A1

TITLE: PURIFIED MANNANASE FROM BACILLUS AMYLOLIQUEFACIENS AND METHOD OF PREPARATION

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 35. Document ID: CN 1351169 A

L2: Entry 35 of 51

File: DWPI

May 29, 2002

DERWENT-ACC-NO: 2002-558806

DERWENT-WEEK: 200260

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TITLE: Gene sequence of beta-mannase and process for preparing recombinant enzyme coded by it

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 36. Document ID: JP 2002065257 A

L2: Entry 36 of 51

File: DWPI

Mar 5, 2002

DERWENT-ACC-NO: 2002-367844

DERWENT-WEEK: 200240

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TITLE: Beta-mannanase and its hydrolysis products produced by Bacillus polymyxa in a cell culture, used as a food thickener

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 37. Document ID: KR 2002000013 A WO 200198462 A1 AU 200174647 A

L2: Entry 37 of 51

File: DWPI

Jan 4, 2002

DERWENT-ACC-NO: 2002-114574

DERWENT-WEEK: 200244

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TITLE: New Bacillus species strain for producing mannanase useful in monogastric animal feed

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 38. Document ID: NZ 320802 A WO 9711164 A1 AU 9673612 A NO 9801168 A EP 851914 A1 JP 11514856 W MX 9802013 A1 AU 716627 B

L2: Entry 38 of 51

File: DWPI

Nov 29, 1999

DERWENT-ACC-NO: 1997-202873

DERWENT-WEEK: 200031

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TITLE: Prepn. of purified mannanase from Bacillus amyloliquefaciens - is useful in chlorine-free bleaching process for pulp, decreasing need for hydrogen peroxide

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 39. Document ID: JP 08051975 A JP 2626662 B2

L2: Entry 39 of 51

File: DWPI

Feb 27, 1996

DERWENT-ACC-NO: 1996-174559

DERWENT-WEEK: 199618

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TITLE: New beta-mannanase reacting specifically with beta-mannan - prepd. by culturing microbe of Bacillus genus for extracellular prepn.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 40. Document ID: JP 07274960 A

L2: Entry 40 of 51

File: DWPI

Oct 24, 1995

DERWENT-ACC-NO: 1995-399332

DERWENT-WEEK: 199551

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TITLE: New beta-mannanase producing Bacillus subtilis strains - produce solely beta-mannase as exo-enzyme thereby reducing prodn. and purificn. costs.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 41. Document ID: JP 3043888 B2 JP 05246860 A

L2: Entry 41 of 51

File: DWPI

May 22, 2000

DERWENT-ACC-NO: 1993-339636

DERWENT-WEEK: 200029

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TITLE: Preventive agent against large bowel cancer - contains partially hydrolysed glucomannan derived from Devil's tongue

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 42. Document ID: JP 05023175 A

L2: Entry 42 of 51

File: DWPI

Feb 2, 1993

DERWENT-ACC-NO: 1993-079439

DERWENT-WEEK: 199310

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TITLE: Bacillus stearothermophilus JD-72 strain - used to produce alpha-galactosi dase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 43. Document ID: WO 9118974 A US 5551515 A AU 9180600 A US 5476775 A

L2: Entry 43 of 51

File: DWPI

Dec 12, 1991

DERWENT-ACC-NO: 1992-007462

DERWENT-WEEK: 199641

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TITLE: New hemicellulase active at alkaline pH and high temp. - used esp. to degrade gelling agent used to fracture oil well

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 44. Document ID: ES 2114889 T3 WO 9118521 A AU 9180048 A EP 531437 A1 JP 05507202 W EP 531437 A4 US 5429828 A EP 531437 B1 DE 69128531 E

L2: Entry 44 of 51

File: DWPI

Jun 16, 1998

DERWENT-ACC-NO: 1992-007128

DERWENT-WEEK: 199830

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TITLE: Consumable compsns. for monogastric animals and humans - contains mannan-contg. hemicellulose and enzyme to catalyse degradation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 45. Document ID: JP 03047076 A JP 93018554 B

L2: Entry 45 of 51

File: DWPI

Feb 28, 1991

DERWENT-ACC-NO: 1991-105669

DERWENT-WEEK: 199747

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TITLE: New beta-mannanase - hydrolyses beta 1,4-D-mannopyranoside bonds of mannan, glucomannan and galactomannan and can be mfd. at low cost

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 46. Document ID: SU 1514776 A

L2: Entry 46 of 51

File: DWPI

Oct 15, 1989

DERWENT-ACC-NO: 1990-137760

DERWENT-WEEK: 199018

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TITLE: Bacillus subtilis strain VKPM B-4025 - used in mfr. of endo-beta-mannanase for use in food, microbiological and paper industries

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 47. Document ID: JP 63036775 A JP 92012707 B

L2: Entry 47 of 51

File: DWPI

Feb 17, 1988

DERWENT-ACC-NO: 1988-087096

DERWENT-WEEK: 199732

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TITLE: Basophilic bacillus strain - produces B-beta-mannanase and beta-mannosidase which hydrolyse beta-D-mannan

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 48. Document ID: SU 943277 B

L2: Entry 48 of 51

File: DWPI

Jul 15, 1982

DERWENT-ACC-NO: 1983-51369K

DERWENT-WEEK: 198321

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TITLE: Nutrient medium for Bacillus subtilis - contg. flour of lucerne seeds or eremurus roots used in producing beta-mannase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 49. Document ID: JP 57065182 A JP 82059754 B

L2: Entry 49 of 51

File: DWPI

Apr 20, 1982

DERWENT-ACC-NO: 1982-42993E

DERWENT-WEEK: 198221

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TITLE: Beta-1,4-mannanase prepn. - by culturing Bacillus subtilis in medium contg. beta-1,4-manno-pyranosyl and at least one of rice bran, soybean, corn etc.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 50. Document ID: SU 857263 B

L2: Entry 50 of 51

File: DWPI

Aug 23, 1981

DERWENT-ACC-NO: 1982-51762E

DERWENT-WEEK: 198225

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TITLE: Bacterial beta-mannase enzyme prodn. - by culturing Bacillus subtilis strain, pptn. with ethanol and addn. of polyacrylic acid and calcium chloride soln.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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